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Sumit Kasera • Nishit Narang • A P Priyanka



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combot and mobility anonagoness. The A-interface is based on the RSS application part (RSSAP) as specified in [NGP TS 48400]. The RSSAP is itself up in into two subapplication parts. Those are RSS introggoment application part (RSSMAP) and direct manufer application part (OFAP).

The BSSMAII supports the procedures between MSC and BSI for call handling and cosmore monacerosm (e.g., paging procedures, rood, and bandone procedures. This is the main signaling postures between the MSI/2/4 St and the ISS 10s (DAA) essentially provided as adapting conduction for transfer of MM and CC protect an essages across the BSIS, in other words, SSIS does not interpret these recognition for transfer of MM and CC protect an essages across the BSIS. In other words, SSIS does not interpret these recognition of transfers these recognitions and MSI/2/LSI.

The BSSAT protocol messages are comised over the SST protocol stack, which trobates the SCCP and the MTP protocol. Those protocols are not specific to mobile networks and are used in other Public Switched Telephone Networks (CFTN) as sort.

1.8.4 GSM Core Network Interfaces

The costs six outing protocol stord within the CEM core network is the mobile application part CMAP. The MAP protocol defines signaling messages for all control procedures within the nerv network. The includes procedures for mobility management, self posterol and applications process a sample control procedure of the NAP protocol resssages are therefore control over the BSP protocol stack.

US CISM Appresses the linearities

In CSSA, a number of identifiers are used for the purpose of addressing and identification. Each identifier servers a specific purpose, litest crosses the international module coherenter identify, (IACS) itest uniquely identifies a cohercifics. An IACS map be associated with smilight entribusions crossings from (IACS) in control control control of the control of t

Then there are E.164 addresses used to identify neovork entities.

All these identifiers and addresses are explained to the biliowing sections are also Table 1.2). The reader is reterred to [ICPP 15 23-003] to complete information of numbering, addressing, and identification schemes cood in a CloS network.

1.9.1 Subscriber Identity

A subscriber is uniquely identified by its DMSA. The IMSI is stored in the SMM within the MS and kept hidden from ordinary access. As shown in Fig. 3.27, the DMSA is divided into time

A PORTE LAG	

CSSA Addresses	

identity	Description	Composition	
0AFR	Someowit identity that ordigodly identifies a subscriber	MCC + MNC + MSEN	
MERRON	pervice identity that is used for continuousation with a subscriber	CC v NDCv 586	
Y\$433	Temperary identity that it used to hide the purmanent identity BASI of a subscriber	4 octets tchosen by operator)	
EMSE	Temporary identity that is used by VLR to optimize database search	A notety (allocated by VIJ()	
MSKN	Temperary identity that is allocated by VLB and is used to mate colls directed to an MS	CC + NDC+ SN	
imia	Penningent identity that uniquely identifies on MS	TAC - SNR	
tuscoston Minosbos	Refers to the meagraptical practical of the MS in because f streetardised meethicates	CC + NDC + ESP	
Elited adateose	Used by MSC, CMSC, SIR, HILR, and VER for the proposer of standing	CC + NDC+ SN	

Pictoke 1.27	imsi	9000 Nook ooking o
State of the State	NMS!	660 Nonabardan
	MOC MISO MSIN (3 Digits) (200 Digits) (U(10 10 Digits)	MRC: Mano receded Medi 1000cot reado

distinct parts. The first three digits of the IMSI is the MCC. The MCC identifies the country of destricible of the motifie subsective. The next two or three digits is the MMC. The MMC identifies the Leone PLMN of the subsective, The binout PLMN of a subsective is the mobile subsective is to which the tambide subsective is permanently essection. The last field of IMBI is the mobile subsective to be mobile subsective is permanently essection. The last field of IMBI is the mobile subsective theoritication number (MISIN). The MSIN compacty identifies a subscriber within a PLMN. The combination of MNMC and MSIN is collect the extensit making each subscriber identify (MMSI).

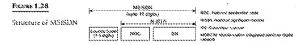
1.9.2 Service Identity

The mobile counder used to contest a person is the MSSDN torrober and not the IMSUTuo, on MSISDN can be viewed as a service identity because a subscriber may have multiple MSISDN, where each MSISDN identities a particular service (voice call, fox, etc.). In other

words, while the IMSI is a subscriber identity, the MSISON is the service identity associated with the cubscribes

The MSSEON combers are based on the SEON consolering plan and ablacted to such a reasoner that fixed-line ISON or PSTN subscribers can call any mobile subscriber. The ISON numbering plan is based on PCC-I specification E.164.

Figure 1.28 shows the structure of ASSSEA. Like (ASS), an MSISON manther is compresed of three distinct parts: a CC, a national destination code (ADC), and a subscriber number (SN). There is a cure-to-mus analogy between the elements of DMH and MSISON. The basic difference between the two is the member of digits allocated in indirectual elements. The country code is from 1 to 3 digits.



The MSISDIN can be of a maximum of 15 digits. The size of national (significant) number depends upon the size of exentry code and can be of a maximum of 13 digits (when exentry code is of f digit).

1.9.3 Equipment Identity

An MS is identified uniquely by its BMEI. The DMEI is a 18-digit identifier and has a structure as shown in Fig. 1.29. The first eight digits from the type ollocation code (FAC). The next six digits from the serial number (SNS), The last digit is space and set to 0.

Foroxe 1.29	£	MES		
Structure of IMEE	TAC (6 digits)	StyR (atighte)	Spare (1 digit)	This Type obscaled trafe 99%; Sensi nontial 99%; retermined mobile shales represent classic

. The DMH is used to uniquely identify an MH globally. It can be used to track a stolen handset. The IMH of a heartest can be known by typing the string 1808 of at bash 0.6 inskip on the MS.

1.9.4 Temporary Identities

Apart from IMSI and MSIIDIN, there are temporary identifiers used for specific purpose. These temporary identifiers are as follows: $\frac{1}{2} \frac{1}{2} \frac{1}{2}$

Temperary motile subscriber identity (TMSI)